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| L15 | L13 and sterol | 16 | L15 |
| L14 | L13 same sterol | 2 | L14 |
| L13 | L12 same tRNA | 143 | L13 |
| L12 | isopentenyl$ | 2124 | L12 |
| L11 | L8 and tRNA | 2 | L11 |
| L10 | L8 and sterol | 0 | L10 |
| L9 | L8 same sterol | 0 | L9 |
| L8 | Mod5p or Mod5 | 26 | L8 |
| L7 | L5 and Mod5p | 0 | L7 |
| L6 | L5 and Mod5 | 0 | L6 |
| L5 | sterol synthesis | 243 | L5 |
| L4 | L2 and Mod5p | 0 | L4 |
| L3 | L2 and Mod5 | 0 | L3 |
| L2 | melvalonate | 4 | L2 |
| L1 | melvalonate pathway | 0 | L1 |

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DIALOG

| Set | Items | Description |
|---|---|---|
| S1 | 383 | MOD5 OR MOD5P |
| S2 | 9 | S1(S)(STEROL OR MELVALONATE) |
| S3 | 3 | RD S2 (unique items) |
| S4 | 3382 | ISOPENTYL? |
| S5 | 18 | S4 (S)TRNA |
| S6 | 1 | S5 (S)(NONSENSE OR NON-SENSE) |
| S7 | 3 | S1 (S)(SCREEN OR SCREENED OR SCREENING) |
| S8 | 2 | RD S7 (unique items) |

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File 358:Current BioTech Abs 1983-2002/Dec
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3/K/1 (Item 1 from file: 5)
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ABSTRACT: The Saccharomyces cerevisiae **Mod5** protein catalyzes isopentenylation of A to i6A on tRNAs in the nucleus, cytosol, and mitochondria. The substrate for **Mod5p**, dimethylallyl pyrophosphate, is also a substrate for Erg20p that catalyzes an essential step in **sterol** biosynthesis. Changing the distribution of **Mod5p** so that less **Mod5p** is present in the cytosol decreases i6A on cytosolic tRNAs and alters tRNA-mediated nonsense...

...levels of i6A on tRNAs. Thus, Erg20p appears to affect nonsense suppression by competing with **Mod5p** for substrate. Identification of ERG20 reveals that yeast have a limited pool of dimethylallyl pyrophosphate...

3/K/3 (Item 1 from file: 35)
DIALOG(R)File 35:(c) 2003 ProQuest Info&Learning. All rts. reserv.

The <italic>S. cerevisiae</italic> sorting isozyme, **Mod5p**, which catalyzes tRNA isopentenylation, has two known isoforms: **Mod5p**-I, present in the mitochondria and cytosol, and **Mod5p**-II, located in the nucleus and cytosol. In an attempt to identify genes of cytosolic factors involved in delivery of **Mod5p**-I to the mitochondria, yeast containing overexpressed genomic or cDNA clones were monitored for loss...

...overexpressing <italic>ERG20</italic> had 70% less isopentenyl tRNA than control cells. Since Erg20p and **Mod5p** share the same substrate, large amounts of Erg20p probably siphon this substance away from **Mod5p**, preventing modification of tRNA required for suppression. Excess Arc1p, which does not confer an antisuppressor...

...decrease in isopentenyl tRNA, might interfere with tRNA functioning, but this needs further study. Although **Mod5p**-I sorting factors were probably not found, the selection of Erg20p suggests that this assay might be used to monitor **sterol** synthesis pathway flux, perhaps beneficial to drug development.
In a search for a nuclear localization...
? t s3/medium/1-3

3/3/1 (Item 1 from file: 5)
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12349553 BIOSIS NO.: 200000103055
Competition between a sterol biosynthetic enzyme and tRNA modification in addition to changes in the protein synthesis machinery causes altered nonsense suppression.
AUTHOR: Benko Ann L; Vaduva Gabriela; Martin Nancy C; Hopper Anita K(a)
AUTHOR ADDRESS: (a)Department of Biochemistry and Molecular Biology, Pennsylvania State University College of Medicine, 500 University Drive, H171, Hershey, PA, 17033**USA
JOURNAL: Proceedings of the National Academy of Sciences of the United States of America 97 (1):p61-66 Jan. 4, 2000
ISSN: 0027-8424
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English
SUMMARY LANGUAGE: English

3/3/2 (Item 1 from file: 399)

DIALOG(R)File 399:CA SEARCH(R)
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134068428 CA: 134(6)68428m PATENT
Compositions and methods for the quantification of sterol biosynthetic flux
INVENTOR(AUTHOR): Hopper, Anita K.; Martin, Nancy C.; Benko, Ann
LOCATION: USA
ASSIGNEE: The Penn State Research Foundation
PATENT: PCT International ; WO 200078994 A1 DATE: 20001228
APPLICATION: WO 2000US17190 (20000622) *US PV141516 (19990623) *US PV199699 (20000426)
PAGES: 51 pp. CODEN: PIXXD2 LANGUAGE: English CLASS: C12Q-001/02A; C12Q-001/18B; C12Q-001/68B; C12N-001/11B; C12N-001/16B; C12N-001/19B
DESIGNATED COUNTRIES: AE; AL; AM; AT; AU; AZ; BA; BB; BG; BR; BY; CA; CH; CN; CR; CU; CZ; DE; DK; DM; EE; ES; FI; GB; GD; GE; GH; GM; HR; HU; ID; IL; IN; IS; JP; KE; KG; KP; KR; KZ; LC; LK; LR; LS; LT; LU; LV; MA; MD; MG; MK; MN; MW; MX; NO; NZ; PL; PT; RO; RU; SD; SE; SG; SI; SK; SL; TJ; TM; TR; TT; TZ; UA; UG; US; UZ; VN; YU; ZA; ZW; AM; AZ; BY; KG; KZ; MD; RU; TJ; TM
DESIGNATED REGIONAL: GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ; UG; ZW; AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LU; MC; NL; PT; SE; BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML; MR; NE; SN; TD; TG

3/3/3 (Item 1 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01803353 ORDER NO: AADAA-I9940801
THE SEARCH FOR TRANS- AND CIS-ACTING DETERMINANTS OF SACCHAROMYCES CEREVISIAE MOD5P SUBCELLULAR DISTRIBUTION (PROTEIN SORTING, NONSENSE SUPPRESSION, NUCLEAR LOCALIZATION)
Author: BENKO, ANN LYNN
Degree: PH.D.
Year: 1999
Corporate Source/Institution: THE PENNSYLVANIA STATE UNIVERSITY (0176)
Source: VOLUME 60/08-B OF DISSERTATION ABSTRACTS INTERNATIONAL. PAGE 3731. 188 PAGES

? t s8/k/1-2
>>>KWIC option is not available in file(s): 399

8/K/1 (Item 1 from file: 5)
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ABSTRACT: Two forms of **Mod5p**, a tRNA modification enzyme, are found in three intracellular compartments, mitochondria, cytoplasm and nucleus, but are encoded by a single **MOD5** gene. The two forms of the enzyme, **Mod5p**-I and **Mod5p**-II differ at the N-termini and are produced by initiation of translation at different start codons. **Mod5p**-I does contain a mitochondrial targeting signal and is distributed between mitochondria and cytoplasm, whereas **Mod5p**-II is found in the cytosol and nucleus (Boguta, M., et al. 1994, Mol. Cell. Biol. 14, 2298-2306). In the present work mutants which mislocalize the **Mod5p** -I enzyme were isolated. The **screen** was based on a correlation between the amount of cytosolic protein and the efficiency of...

...an ade2-1 nonsense allele. The maf1 mutant, with an altered intracellular localization of the **Mod5p**-I protein, was isolated. Immunofluorescence data suggest that the mutation causes mislocalization of the **Mod5p**-I to the nucleus.

8/K/2 (Item 1 from file: 357)
DIALOG(R)File 357:(c) 2003 Thomson Derwent & ISI. All rts. reserv.

ABSTRACT: **Screening** compounds for (ant)agonistic effects on the mevalonate pathway is claimed and involves: providing a...

...yeast cells (YCs) derived from wild-type cells expressing reduced levels of cytosolic levels of **mod5p** or its homolog, where the modified YC comprises a gene with a nonsense mutation (NM) and suppressor tRNA gene coding for a tRNA modified with isopentenyladenosine by **Mod5** or its homolog; exposing a sample of the modified YCs to the TC and GM ...

... a LYS2 gene with NM and nonsense suppressor gene. The methods are used for drug **screening** for hypercholesterolemia therapy. (50pp)

? t s8/medium/1-2

8/3/1 (Item 1 from file: 5)
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09716672 BIOSIS NO.: 199598171590
Mfa1 mutation alters the subcellular localization of the Mod5 protein in yeast.
AUTHOR: Murawski Marcin(a); Szczesniak Barbara; Zoladek Teresa; Hopper Anita K; Martin Nancy C; Boguta Magdalena(a)
AUTHOR ADDRESS: (a)Dep. Genetics, Inst. Biochem. Biophsysics, Pol. Acad. Sci. A, Pawinskiego 5a, 02-106 Warsaw**Poland
JOURNAL: Acta Biochimica Polonica 41 (4):p441-448 1994
ISSN: 0001-527X
DOCUMENT TYPE: Article
RECORD TYPE: Abstract
LANGUAGE: English

8/3/2 (Item 1 from file: 357)
DIALOG(R)File 357:Derwent Biotech Res.
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0264799 DBR Accession No.: 2001-04553 PATENT
Novel methods for identifying (ant)agonists of the mevalonate pathway, useful in the treatment of hypercholesterolemia and preventing heart attacks - drug screening using yeast with nonsense mutation
AUTHOR: Hopper A K; Martin N C; Benko A
CORPORATE SOURCE: University Park, PA, USA.
PATENT ASSIGNEE: Univ.Pennsylvania-State-Res.Found. 2000
PATENT NUMBER: WO 200078994 PATENT DATE: 20001228 WPI ACCESSION NO.: 2001-071399 (2008)
PRIORITY APPLIC. NO.: US 199699 APPLIC. DATE: 20000426
NATIONAL APPLIC. NO.: WO 2000US17190 APPLIC. DATE: 20000622
LANGUAGE: English
? t s6/k
>>>KWIC option is not available in file(s): 399

6/K/1 (Item 1 from file: 98)
DIALOG(R)File 98:(c) 2003 The HW Wilson Co. All rts. reserv.

ABSTRACT: Analysis of the identity of Saccharomyces cerevisiae genes involved in **tRNA**-mediated **nonsense** suppression revealed 2 categories of genes: those that alter the protein synthetic machinery, and those...

...sterol biosynthesis. The 2 pathways are in apparent competition for substrate. Furthermore, Mod5, which catalyzes **isopentylation** of A to i6A on tRNAs, and Erg20p, which catalyzes an essential step in sterol...

? t s6/medium

6/3/1 (Item 1 from file: 98)
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04257364 H.W. WILSON RECORD NUMBER: BGSA00007364
Competition between a sterol biosynthetic enzyme and tRNA modification in addition to changes in the protein synthesis machinery causes altered nonsense suppression.
Benko, Ann L
Vaduva, Gabriela; Martin, Nancy C
Proceedings of the National Academy of Sciences of the United States of America v. 97 no1 (Jan. 4 2000) p. 61-6
SPECIAL FEATURES: bibl il ISSN: 0027-8424
LANGUAGE: English
COUNTRY OF PUBLICATION: United States
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Enter the **first few letters** of the Inventor's Last Name.
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1: Benko AL, Vaduva G, Martin NC, Hopper AK. Related Articles, Links

Competition between a sterol biosynthetic enzyme and tRNA modification in addition to changes in the protein synthesis machinery causes altered nonsense suppression.
Proc Natl Acad Sci U S A. 2000 Jan 4;97(1):61-6.
PMID: 10618371 [PubMed - indexed for MEDLINE]

2: Tolerico LH, Benko AL, Aris JP, Stanford DR, Martin NC, Hopper AK. Related Articles, Links

Saccharomyces cerevisiae Mod5p-II contains sequences antagonistic for nuclear and cytosolic locations.
Genetics. 1999 Jan;151(1):57-75.
PMID: 9872948 [PubMed - indexed for MEDLINE]

3: Zoladek T, Vaduva G, Hunter LA, Boguta M, Go BD, Martin NC, Hopper AK. Related Articles, Links

Mutations altering the mitochondrial-cytoplasmic distribution of Mod5p implicate the actin cytoskeleton and mRNA 3' ends and/or protein synthesis in mitochondrial delivery.
Mol Cell Biol. 1995 Dec;15(12):6884-94.
PMID: 8524255 [PubMed - indexed for MEDLINE]

4: Boguta M, Hunter LA, Shen WC, Gillman EC, Martin NC, Hopper AK. Related Articles, Links

Subcellular locations of MOD5 proteins: mapping of sequences sufficient for targeting to mitochondria and demonstration that mitochondrial and nuclear isoforms commingle in the cytosol.
Mol Cell Biol. 1994 Apr;14(4):2298-306.
PMID: 8139535 [PubMed - indexed for MEDLINE]

5: Martin NC, Hopper AK. Related Articles, Links

How single genes provide tRNA processing enzymes to mitochondria, nuclei and the cytosol.
Biochimie. 1994;76(12):1161-7. Review.
PMID: 7748951 [PubMed - indexed for MEDLINE]

6: Murawski M, Szczesniak B, Zoladek T, Hopper AK, Martin NC, Boguta M. Related Articles, Links

maf1 mutation alters the subcellular localization of the Mod5 protein in yeast.
Acta Biochim Pol. 1994;41(4):441-8.
PMID: 7732762 [PubMed - indexed for MEDLINE]

7: Slusher LB, Gillman EC, Martin NC, Hopper AK. Related Articles, Links
mRNA leader length and initiation codon context determine alternative AUG selection for the yeast gene MOD5.
Proc Natl Acad Sci U S A. 1991 Nov 1;88(21):9789-93.
PMID: 1946403 [PubMed - indexed for MEDLINE]

8: Gillman EC, Slusher LB, Martin NC, Hopper AK. Related Articles, Links
MOD5 translation initiation sites determine N6-isopentenyladenosine modification of mitochondrial and cytoplasmic tRNA.
Mol Cell Biol. 1991 May;11(5):2382-90.
PMID: 1850093 [PubMed - indexed for MEDLINE]

9: Najarian D, Dihanich ME, Martin NC, Hopper AK. Related Articles, Links
DNA sequence and transcript mapping of MOD5: features of the 5' region which suggest two translational starts.
Mol Cell Biol. 1987 Jan;7(1):185-91.
PMID: 3031457 [PubMed - indexed for MEDLINE]

10: Dihanich ME, Najarian D, Clark R, Gillman EC, Martin NC, Hopper AK. Related Articles, Links
Isolation and characterization of MOD5, a gene required for isopentenylation of cytoplasmic and mitochondrial tRNAs of Saccharomyces cerevisiae.
Mol Cell Biol. 1987 Jan;7(1):177-84.
PMID: 3031456 [PubMed - indexed for MEDLINE]

11: Martin NC, Hopper AK. Related Articles, Links
Isopentenylation of both cytoplasmic and mitochondrial tRNA is affected by a single nuclear mutation.
J Biol Chem. 1982 Sep 25;257(18):10562-5.
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6: Murawski M, Szczesniak B, Zoladek T, Hopper AK, Martin NC, Boguta M. Related Articles, Links

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Mol Cell Biol. 1991 May;11(5):2382-90.
PMID: 1850093 [PubMed - indexed for MEDLINE]

☐ 9: Najarian D, Dihanich ME, Martin NC, Hopper AK. Related Articles, Links
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PMID: 3031457 [PubMed - indexed for MEDLINE]

☐ 10: Dihanich ME, Najarian D, Clark R, Gillman EC, Martin NC, Hopper AK. Related Articles, Links
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Proc Natl Acad Sci U S A. 2000 Jan 4;97(1):61-6.
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